

Comparisons of Job Characteristics

Focus Occupation: Etchers and Engravers (51-9194)

Associated Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 63

Focus Occupation: Etchers and Engravers (51-9194)

Associated Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	15.8	9.4	<<	Extensive education and/or training may be required
Mathematics	9.2	10.9	9.7	<	Expanded education and/or training may be required
Production and Processing	6.0	10.9	15.0	>>	Current knowledge level is likely more than sufficient
Computers and Electronics	8.4	8.5	13.4	>>	Current knowledge level is likely more than sufficient
Engineering and Technology	5.7	7.8	5.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Etchers and Engravers (51-9194)

Associated Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	13.2	8.5	<<	Extensive development of skills in this area may be required
Monitoring	9.9	13.0	6.9	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	11.8	8.0	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	11.1	7.6	<<	Extensive development of skills in this area may be required

Troubleshooting	4.5	9.2	6.6	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	8.2	5.3	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	8.0	4.4	<<	Extensive development of skills in this area may be required
Repairing	3.4	7.6	3.1	<<	Extensive development of skills in this area may be required
Programming	2.2	7.2	2.0	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 69			
Focus Occupation: Etchers and Engravers (51-9194) Associated Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reaction Time	4.8	13.2	5.0	<<	Extensive improvement in abilities may be required
Auditory Attention	5.9	13.0	3.1	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	12.6	4.6	<<	Extensive improvement in abilities may be required
Control Precision	6.6	12.2	11.2	0	Current ability level may be sufficient
Selective Attention	8.7	11.6	8.2	<<	Extensive improvement in abilities may be required
Depth Perception	5.3	10.7	7.0	<<	Extensive improvement in abilities may be required
Rate Control	3.8	10.1	6.4	<<	Extensive improvement in abilities may be required
Wrist-Finger Speed	3.2	8.0	5.2	<<	Extensive improvement in abilities may be required
Sound Localization	2.2	5.9	1.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 71
Focus Occupation: Etchers and Engravers (51-9194) Associated Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Examine products or work to verify conformance to specifications	15	

Install equipment or attachments on machinery or related structures	48
Load or unload material or workpiece into machinery	34
Measure, weigh, or count products or materials	17
Monitor production machinery/equipment operation to detect problems	27
Operate metal or plastic fabricating equipment/machinery	54
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Understand technical operating, service or repair manuals	6
Use hand or power tools	2
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.